

**Hong Kong Applied Science and Technology Research Institute
 Industry and University Collaboration Forum (IUCF) 2016
 Smart City & 5G Wireless**

Programme Rundown

08:30 – 09:00 **Registration and Networking**

09:00 – 10:30

**Corporate Video
 Welcome Remarks**

- Mr Wong Ming-yam, BBS, JP, Chairman of the Board of Directors, ASTRI

Opening Remarks

- Mr Nicholas W. Yang, JP, Secretary for Innovation and Technology

Keynote: Qianhai and Shenzhen-Hong Kong Cooperation

- Prof Edward Chen Kwan-yiu, CBE, GBS, JP
 President, Qianhai Institute for Innovative Research

Joint Lab Signing Ceremonies

- HKU-ASTRI Joint Research Laboratory
- ASTRI-21Vianet Joint Research and Development Laboratory

10:30 – 11:00

Tea Break & Exhibition

11:00 – 12:15

**An Overview of ASTRI's Latest Development
 Smart Living**

- Dr Hou Ji-lei – Head of Qualcomm Research China
"Leading the World to 5G"
- Mr Andrew Lee – Managing Director, 21Vianet Group
"Evolution of SIM for Next Generation Mobile Network"
- Mr Steve Chu – Vice President, Huawei Technologies and Chief Strategy Officer, HiSilicon
"IoT-The Biggest Business Story"
- Customer Testimonial (1)

12:15 – 13:30

Lunch Break & Exhibition

Breakout Sessions

**Smart City & IoT
 (Grand Hall)**

**Brainstorming Workshop on 5G Wireless
 (Function Hall)**

13:30 – 15:15

Smart Connectivity

Moderated by: Dr Leong Mei-kei
 Chief Technology Officer, ASTRI

- Dr Tiger Lin
 Chief Executive Officer
 CITIC Telecom International
"Mobile Communication Evolution: Its Drivers and Direction"
- Mr Fred Sheu
 National Technology Officer
 Microsoft Hong Kong
"Digital Transformation for Smart City"
- Mr Andy Bien
 Chief Information Officer
 Airport Authority Hong Kong
"How Smart Devices Make Airports Smarter"
- Mr Li Ru-yue
 Technical Director, ZTE
"5G Wireless Technologies and Standardisation"
- Mr Simon Yeung
 Executive Director and President, Comba
 Telecom Systems International Limited

5G Radio Access Technologies

Moderated by: Prof Huang Kai-bin
 The University of Hong Kong

- Prof Min Sheng
 Xidian University, China
"How Much Gain Can We Get From Network Densification?"
- Dr Justin Chuang
 Vice President, Next Generation Network, ASTRI
"5G Access Technologies for Next Generation Heterogeneous Networks"
- Prof Wang Li-chun
 National Chiao Tung University, Taiwan
"SDN/NFV-enabled 5G Wireless: Opportunities and Challenges"
- Prof Chung Char-dir
 National Taiwan University
"Spectrally Efficient Pilot Waveforms for Channel Estimation in OFDM"

15:15 – 15:30

Tea Break & Exhibition

15:30 – 16:15

Smart Mobility

- Dr Vanja Subotic
Director, Product Management for InterDigital IoT Solutions, USA
“oneTRANSPORT: A oneM2M™ – Based IoT Solution for the Transport Industry”
- Prof Guan Yong-liang
Associate Professor, Nanyang Technological University
PI of NTU-NXP® Smart Mobility Test Bed, Singapore
“NTU-NXP Smart Mobility Testbed: A Campus-Wide Infrastructure for Connected Cars”
- Customer Testimonial (2)

5G Networks

Moderated by: Prof Huang Jian-wei
The Chinese University of Hong Kong

- Prof Dai Lin
Associate Professor
City University of Hong Kong
“Capacity Analysis of Large-Scale Distributed Antenna System (DAS): From Cellular DAS to Virtual-Cell Based DAS”
- Prof Zhang Ying-jun
The Chinese University of Hong Kong
“Randomized Message Passing for a Scalable PHY Layer of CRAN”
- Prof Phone Lin
National Taiwan University
“A Connection-Driven Mechanism for Energy Saving of Small-Cell Networks”
- Prof Ma Shao-dan
University of Macau
“Transmission Capacity of Clustered Ad Hoc Networks with Virtual Antenna Array”

16:15 – 17:05

Panel Discussion

“What Will be the Key Driver for Cities to Adopt Future Smart Mobility Technology?”

Moderated by: Dr Leong Mei-kei
Chief Technology Officer, ASTRI

- Dr Vanja Subotic
Director, Product Management for InterDigital IoT Solutions, USA
- Prof Guan Yong-liang
Associate Professor, Nanyang Technological University
PI of NTU-NXP® Smart Mobility Test Bed, Singapore
- Mr Andy Bien
Chief Information Officer
Airport Authority Hong Kong
- Dr Henry Wong
Head of Strategic Wireless Technology and Core Network, Hong Kong Telecommunications (HK) Limited
- Mr Simon Yeung
Executive Director and President, Comba Telecom Systems International Limited

Recent Trends in 5G

Moderated by: Prof Wu Yik-chung
The University of Hong Kong

- Prof Xia Ming-hua
Sun Yat-sen University, China
“Unified Analytical Volume Distribution of the Typical Cell of Poisson-Delaunay Tessellations and Its Application in 5G Small Cell Networks”
- Prof Chen Min
Huazhong University of Science and Technology, China
“5G Cognitive System”
- Prof Gao Lin
Harbin Institute of Technology, China
“Mobile Crowdsourced Content Delivery Networks for 5G”

17:05

End of Programme

Panel Discussion

“Fog Computing and Networking: A New Paradigm for 5G and IoT Applications”

Moderated by: Prof Russell Hsing
National Chiao Tung University, Taiwan

- Prof Jiao Bing-li
Peking University, China
“CCFD-Based WiFi for 5G”
- Prof Tony Quek
Singapore University of Technology and Design
“Enabling 5G Technologies for Future Health Care”
- Prof Huang Jian-wei
The Chinese University of Hong Kong
“Network Economics for Future Wireless Ecosystems”
- Prof Pang Ai-chun
National Taiwan University
“Enabling Low-Latency Applications in Fog-Radio Access Network”

Concluding Remarks and Next Workshop

Moderated by: Prof Russell Hsing
National Chiao Tung University, Taiwan

18:05

End of Programme